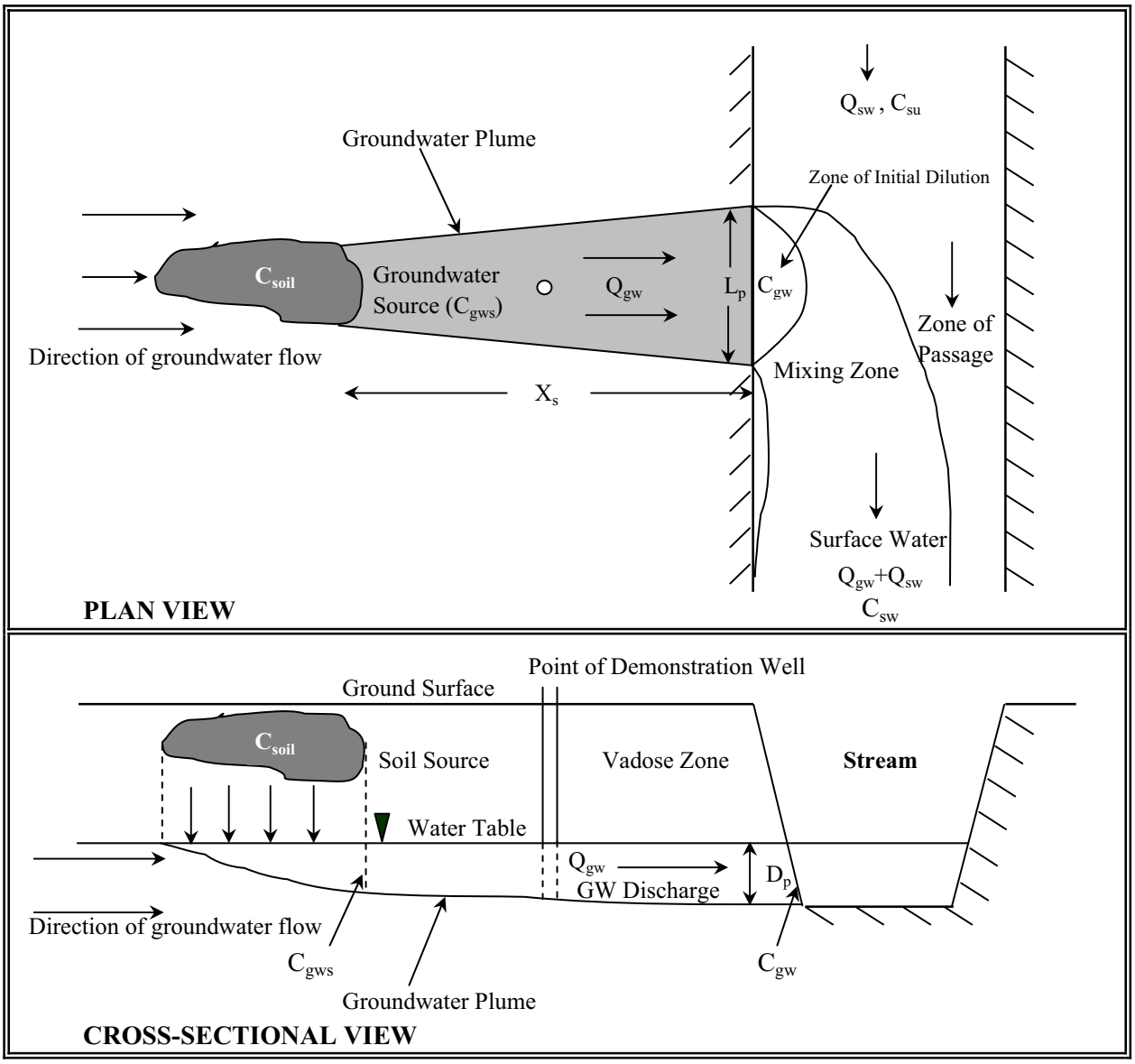

Figure E-2. Schematic of Leachate Migration from the Soil to a Stream

Explanation of Symbols

Q_{sw} = Stream flow upstream of the point of groundwater discharge[ft^3/day]
C_{su} = Concentration upstream of the groundwater discharge [mg/L]
Q_{gw} = Impacted groundwater discharge into the stream [ft^3/day]
C_{sw} = Allowable downstream concentration, i.e., specific water quality criteria to be met beyond mixing zone [mg/I
C_{gw} = Allowable concentration in the groundwater discharge to the stream [mg/L]
C_{gws} = Allowable concentration in the groundwater at the edge of the soil source [mg/L]
C_{soil} = Allowable soil concentration at the source [mg/kg]
L_p = Width of groundwater plume discharging to the stream [ft]
D_p = Thickness of groundwater plume discharging to the stream [ft]
X_s = Distance from the downgradient edge of the groundwater source to the stream [ft]

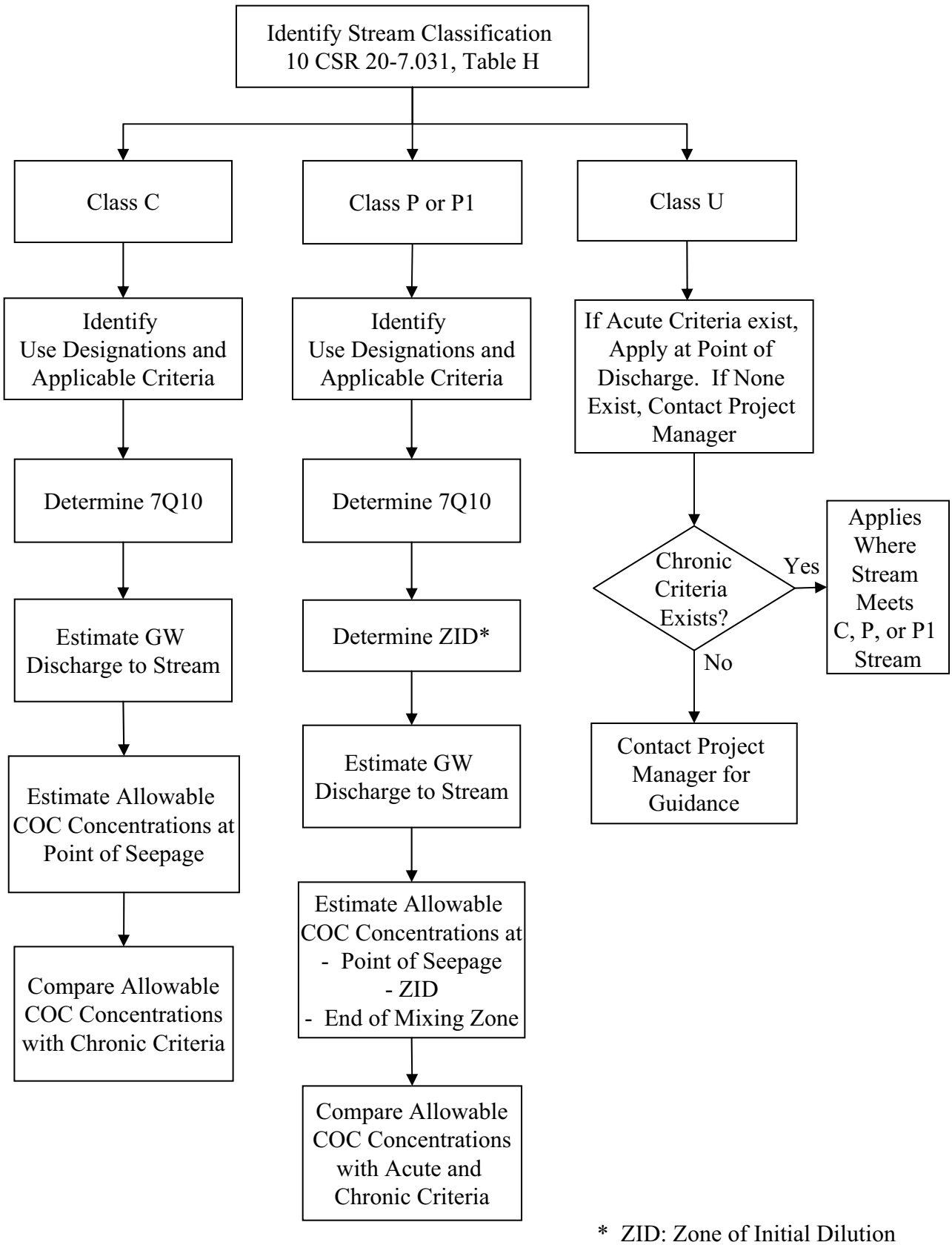

Figure E-3. Procedure for Protection of Stream Body